

Sub
B1

1. A method of configuring a first network device for connection to a communications network subnet having a second network device, the method comprising:

non-iteratively determining, with a configuration determination module of the first network device, configuration attributes for operably connecting the first network device to the subnet; and

configuring the first network device, with an autoconfiguration module of the first network device, according to the configuration attributes so that the first network device is operably connected to the subnet.

Sub
B6

15. An autoconfiguring data router connected to a communications network subnet having a second network data router, the autoconfiguring data router comprising:

a configuration determination module that non-iteratively determines configuration attributes for operably connecting the autoconfiguring data router to the subnet; and

an autoconfiguration module that configures the autoconfiguring data router according to the configuration attributes so that the autoconfiguring data router is operably connected to the subnet.

Sub B9

29. A computer network having at least one subnetwork, the at least one subnetwork having a plurality of data routers that communicate data packets over the network, the subnetwork including at least one autoconfiguring data router, the at least one autoconfiguring data router comprising:

Cont
Sub B9
a configuration determination module that non-iteratively determines configuration attributes for operably connecting the autoconfiguring data router to the subnet; and

an autoconfiguration module that configures the autoconfiguring data router according to the configuration attributes so that the autoconfiguring data router is operably connected to the subnet.

Sub B12
Q4
43. A computer program product for use on a computer system for configuring a first network device for connection to a communications network subnet having a second network device, the computer program product comprising a computer-usable medium having computer-readable program code thereon, the computer readable program code including:

program code for non-iteratively determining configuration attributes for operably connecting the first network device to the subnet; and

program code for configuring the first network device according to the configuration attributes so that the first network device is operably connected to the subnet.

Sub B15
Q5
57. An autoconfiguring data router connected to a communications network subnet having a second network data router, the autoconfiguring data router comprising:

means for non-iteratively determining configuration attributes for operably connecting the autoconfiguring data router to the subnet; and

means for configuring the autoconfiguring data router according to the configuration attributes so that the autoconfiguring data router is operably connected to the subnet.